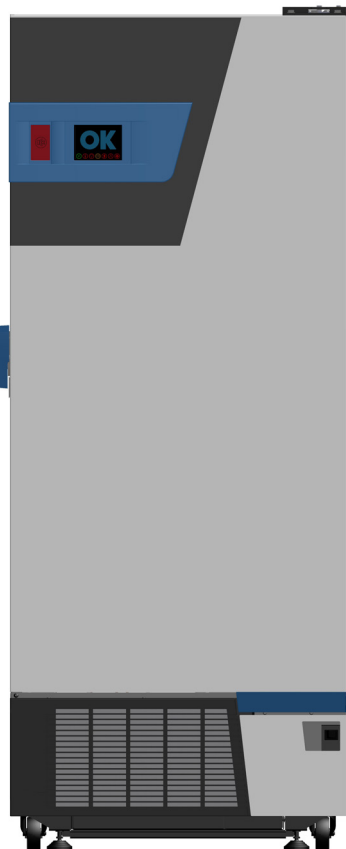


DATA SHEET

TRUST | 690 L | -86°C

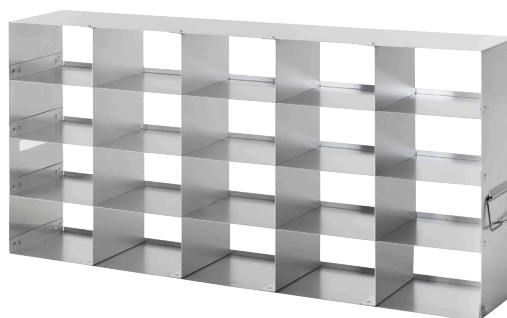


Reference	
BMTRU69086	
General specifications	
Raw volume	690 liters / 24.3 cu.ft. - 4 compartments
Storage capacity	48 000 cryotubes 2mL
Dimensions : externals (H x W x D) internals (H x W x D)	1990 x 875 x 970 mm / 78.4 x 38.2 x 34.5 in. 1436 x 630 x 752 mm / 56.6 x 29.6 x 24.8 in.
Construction : external internal	Electrogalvanised steel with epoxy paint Stainless steel inner tank with rounded corners
Insulation	6 faces Vacuum insulation panel (VIP) and high density polyurethane foam Thermal conductivity < 0.005 W/m/K
Net weight	330 kg / 728 lb.
Standard equipment	3 shelves (maximum weight per shelf: 75 kg / 165 lb) 4 swivel casters 2 levelling feet Key lock (2 keys supplied) 1 power cord, 3m long with IEC19 detachable connectors
Working temperature	From +18°C (65°F) to +32°C (89°F)
Indoor / outdoor use	For indoor use only
Environment	Not designed for use in explosive atmospheres (ATEX)
Noise level	56 dB
Warranty	<ul style="list-style-type: none"> 2 years 5 years : fan, compressors, condenser 10 years : VIP insulation
Refrigeration system	
Cooling engine	2 stage compressors cascade system with intermediate plate heat exchanger Cold production by 5 internal walls
Expansion device	Capillary tube
Refrigerant load	1st stage : R417A / 2nd stage : R508B (non-flammable, without CFC and HCFC)*
Defrosting method	Manual with heated door-seal and heated valve pit
Electric and electronic data	
Controller type	Fuji regulator and Schneider industrial automation
Temperature probe	1 x Pt100 3 wires probe
List of alarms	<ul style="list-style-type: none"> Configurable high and low temperature alarm Open door alarm, triggered after 2 minutes opening Alimentation 230 VAC, overpressure CP1, battery charge failure, engine failure, CO₂ / LN₂ injection in progress
Types of alarms	Visual (OK and pictograms) and acoustic with automatic reactivation after predefined delay
Remote alarm contact	NO - NC dry contact (optional)
Energy consumption	1500 W
Types of power supply	<ul style="list-style-type: none"> Voltage 230V ~ +/-10%, 50 Hz, fuse protection «aM 12A» Voltage 110V ~ +/-10%, 50/60Hz, fuse protection «aM 20A» Voltage 220V ~ +/-10%, 60Hz, fuse protection «aM 12A»
Performances (ambient temperature : 22°C / 72°F)	
Temperature range	From -60°C to -86°C, 1/10th degree display
Pull down from ambient to -86°C	~ 4 hours
Uniformity at -80°C	+/-5°C

Options and conformities	
Options	<ul style="list-style-type: none"> • Cryo-accumulators (from 6h to 8h additional autonomy) • CO₂ / LN₂ backup system (150 bar max electrical valve) • Additional Pt 100 ohms 3 wires • Thermocouple K probe • Circular chart recorder • 4-20mA output • COFRAC 9 points temperature mapping • IQ / OQ documentation • BoSS system • NO - NC dry contact • Padlock closure
Supplied with	<ul style="list-style-type: none"> • User manual • Detachable washable filter • Scraper
Certification / Conformities	<ul style="list-style-type: none"> • EN61010-1 – Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements • 2014/35/UE – Low voltage directive • 2014/30/UE – EMC directive, Class A device • 97/23/CE – Under pressure devices

Shipping	
Shipping dimensions (H x W x D)	2150 x 940 x 1170 mm / 84.7 x 37 x 46.1 in.
Shipping weight	350 kg / 772 lb.
Type of package	Delivered on pallet with unloading ramp

Storage elements	
Full range of storage elements available	



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FROILABO freezers are designed in France and made in U.E.

The specifications and technical data presented in this datasheet are those in our possession on the date of emission. FROILABO reserves the right to make, without notice, any modifications to its products, specifications, colors, materials and technical data, or to interrupt the manufacture of the freezers.

Despite the care taken in its realization, this product sheet does not constitute a contractual document.

For more informations, go to sur www.froilabo.com.

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